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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,146	01/03/2002	Boris Bronfin	MM4500	7431
1109	7590 06/03/2005		EXAMINER	
ANDERSON, KILL & OLICK, P.C.			IP, SIKYIN	
	UE OF THE AMERICAS .,, NY 10020-1182		ART UNIT	PAPER NUMBER
	, 		1742	

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/038,146	BRONFIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sikyin Ip	1742				
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet	vith the correspondence address -	-			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM						
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statudenty and the period for reply will, by statudenty reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ply within the statutory minimum of the d will apply and will expire SIX (6) Mo te, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).	ation.			
Status		,				
1) Responsive to communication(s) filed on 03/	7/05:1/13/05.					
	is action is non-final.					
3) Since this application is in condition for allow	ance except for formal ma	tters, prosecution as to the merits	s is			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1,4-8,11,12,14,15,21,24 and 25 is/a	re pending in the applicat	on.				
4a) Of the above claim(s) is/are withdr	awn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 1,4-8,11,12,14,15,21,24 and 25 is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	Examiner. Note the attach	ed Office Action or form PTO-152	·•			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have been au (PCT Rule 17.2(a)).	Application No In received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview	r Summary (PTO-413)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	o(s)/Mail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5)	Informal Patent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 15 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claim 15, the recited properties are not supported by the specification as originally filed.

Said recited properties include values that are not disclosed by the instant Table 4.

Double Patenting

The terminal disclaimer filed on January 13, 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of USP 6139651 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 103

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made

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in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 4-8,11,14,15, 21, 24, and 25 are rejected under 35 U.S.C. 103 as being unpatentable over USP 6139651 to Bronfin et al (See col. 8, Tables 1 and 2, examples 1-4 for Mg based alloy compositions and intermetallic compounds; col. 4, lines 65-67 for mischmetal; col. 5, lines 48-62 for creep properties; and col. 6, lines 47-50 for die-casting; PTO-1449).

Claims 1, 4-8,12,14,15, 21, 24, and 25 are rejected under 35 U.S.C. 103 as being unpatentable over US 2001/0023720 to Ohori et al.

Bronfin disclose(s) the features including the claimed Mg based alloy compositions and intermetallic compounds. The features relied upon described above can be found in the reference(s) at col. 8, Tables 1-2, examples 1-4. Therefore, it would have been obvious to one of ordinary skill in the art to select any portion of range, including the claimed range, from the broader range disclosed in a prior art reference because the prior art reference finds that the prior art composition in the entire disclosed range has a suitable utility. Also see MPEP § 2131.03 and § 2123.

With respect to the Be content, that Bronfin is 0.0001 wt.% higher than the claimed 0.0004 wt.%. However, it is well settled that a prima facie case of obviousness would exist where the claimed ranges and prior art do not overlap but are close enough that one ordinary skilled in the art would have expected them to have the same properties, In re Titanium Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985), In re Woodruff, 16 USPQ 2d 1934, In re Hoch, 428 F.2d 1341, 166 USPQ 406 (CCPA 1970), and In re Payne 606 F.2d 303, 203 USPQ 245 (CCPA 1979).

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To overcome the prima facie case, an applicant must show that there are substantial, actual differences between the properties of the claimed compound and the prior art compound. Hoch, 428 F.2d 1343-44, 166 USPQ 406 at 409.

Claims 1, 4-8,12,14,15, 21, 24, and 25 are rejected under 35 U.S.C. 103 as being unpatentable over US 2001/0023720 to Ohori et al.

The claimed subject matter as is disclosed and rejected above by the Ohori cited except for the intermetallic compounds. However, the instant die-casting Mg based alloy composition are overlapped by the cited reference; consequently, the properties as recited in the instant claims would have inherently possessed by the teachings of the cited reference because intermetallic compounds are material properties. Therefore, the burden is on the applicant to prove that the product of the prior art does not necessarily or inherently possess characteristics attributed to the claimed product. In re Best, 195 USPQ, 430 and MPEP § 2112.01.

"Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established, In re Best, 195 USPQ 430, 433 (CCPA 1977). 'When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not.' In re Spada, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, 195 USPQ 430, 433 (CCPA 1977)."

With respect to the Al content, that Ohori et al is 0.1 wt.% lower than the claimed 6.1 wt.%. However, it is well settled that a prima facie case of obviousness would exist where the claimed ranges and prior art do not overlap but are close enough that one ordinary skilled in the art would have expected them to have the same properties, In re Titanium

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Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985), In re Woodruff, 16 USPQ 2d 1934, In re Hoch, 428 F.2d 1341, 166 USPQ 406 (CCPA 1970), and In re Payne 606 F.2d 303, 203 USPQ 245 (CCPA 1979). To overcome the prima facie case, an applicant must show that there are substantial, actual differences between the properties of the claimed compound and the prior art compound. Hoch, 428 F.2d 1343-44, 166 USPQ 406 at 409.

Claims 1, 4-6, 11-12, 14, 15, 21, and 24-25 are rejected under 35 U.S.C. § 103 as being unpatentable over USP 6342180 to Lefebvre et al.

Lefebvre disclose(s) the features including the claimed Mg based alloy compositions (col. 2, lines 29-49), casting methods (col. 2, lines 54-59), and creeping properties (col. 2, lines 4-20). Therefore, it would have been obvious to one of ordinary skill in the art to select any portion of range, including the claimed range, from the broader range disclosed in a prior art reference because the prior art reference finds that the prior art composition in the entire disclosed range has a suitable utility. Also see MPEP § 2131.03 and § 2123.

Claims 1, 4-6, 11, 12, 14, 15, 21, and 24-25 are rejected under 35 U.S.C. § 103 as being unpatentable over EP 1127950 (PTO-1449) or JP 06200348.

The references disclose the features including the claimed die-casting Mg based alloy composition (EP '950, abstract and [0035]; JP '348, abstract and [0017]). The difference between the reference(s) and the claims are as follows: cited references do not disclose the claimed intermetallic compounds as set forth in claim 8. However, the instant die-casting Mg based alloy composition are overlapped by the cited reference;

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consequently, the properties as recited in the instant claims would have inherently possessed by the teachings of the cited reference because intermetallic compounds are material properties. Therefore, the burden is on the applicant to prove that the product of the prior art does not necessarily or inherently possess characteristics attributed to the claimed product. In re Best, 195 USPQ, 430 and MPEP § 2112.01.

Response to Arguments

Applicant's arguments and declaration filed January 13, 2005 have been fully considered but they are not persuasive.

The declaration filed on January 13, 2005 has been considered. But, unexpected results/critalities must be established by factual evidence. Mere argument or conclusory statements in the specification is not sufficient. In re Geisler (CA FC) 43 USPQ2d 1362 (7/7/1997) and Ex parte Gelles, 22 USPQ2d, 1318. Comparison must be done under identical condition except for the novel features of the invention. In re Brown, 173 USPQ 685 and In re Chapman, 148 USPQ 711. The showing of unexpected results must be occurred over the entire claimed range. In re Clemens, 622 F.2d 1029, 206 USPQ 289, 296 (CCPA 1980). The scope of the showing must be commensurate with the scope of the claims. MPEP § 716.02(d), In re Tiffin, 448 F.2d 791, 792 (Fed. Cir. 1971), In re Coleman, 205 USPQ 1172, In re Grasselli, 713 F.2d 731, 743, 218 USPQ 769, 778 (Fed. Cir. 1983), and In re Greenfield, 197 USPQ 227. General superiority cannot be inferred from the results obtained using a single embodiment of the claimed invention, In re Greenfield, 197 USPQ 227, 230 and MPEP 2144.08 (B). The property or result relied upon must be disclosed in the specification or flow naturally from the

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teaching of the specification. In re Slocombe, 184 USPQ 740, 743 and In re Davies and Hopkins, 177 USPQ 381 (CCPA 1973).

Applicants' argument with respect to Ohori is noted. But, the instant claimed features are overlapped by the features of said reference. With respect to claimed Al content, that 6.1 wt.% is found no patentable distinct from 6.0 wt.%. It is well settled that a prima facie case of obviousness would exist where the claimed ranges and prior art do not overlap but are close enough that one ordinary skilled in the art would have expected them to have the same properties, In re Titanium Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985), In re Woodruff, 16 USPQ 2d 1934, In re Hoch, 428 F.2d 1341, 166 USPQ 406 (CCPA 1970), and In re Payne 606 F.2d 303, 203 USPQ 245 (CCPA 1979). To overcome the prima facie case, an applicant must show that there are substantial, actual differences between the properties of the claimed compound and the prior art compound. Hoch, 428 F.2d 1343-44, 166 USPQ 406 at 409.

Applicants argue that the claimed creep rate cannot be obtained by alloy of Ohori. But applicants fail to provide factual evidence to substantiate their position by way of declaration.

Applicants' argument as set forth with respect to USP 6139651 and Lefebvre is noted. But, it is well settled that a prima facie case of obviousness would exist where the claimed ranges and prior art do not overlap but are close enough that one ordinary skilled in the art would have expected them to have the same properties, In re Titanium Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985), In re

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Woodruff, 16 USPQ 2d 1934, In re Hoch, 428 F.2d 1341, 166 USPQ 406 (CCPA 1970), and In re Payne 606 F.2d 303, 203 USPQ 245 (CCPA 1979). To overcome the prima facie case, an applicant must show that there are substantial, actual differences between the properties of the claimed compound and the prior art compound. Hoch, 428 F.2d 1343-44, 166 USPQ 406 at 409.

Applicants' argument with respect to JP 06200348 is noted. But, applicants have not substantiate their position by factual evidence with declaration. Moreover, instant claims are merely composition claims and all essential elements are taught by said reference.

Conclusion

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121.

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (571) 272-1241. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (571)-272-1244.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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S. lp May 31, 2005